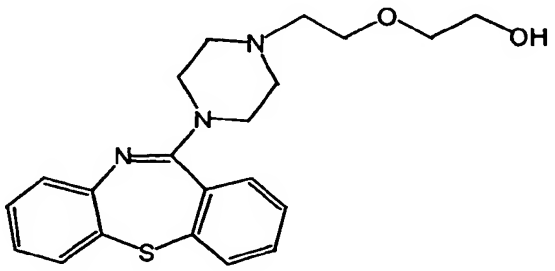
PROCEDURE FOR PREPARING 11-(4-[2-(2-HYDROXYETHOXY)ETHYL]-1-PIPERAZINEYL)-DIBENZO[B,F][1,4]THIAZEPINE

Field of the invention

This invention relates to a new procedure for the preparation of a pharmaceutically active compound.

Background of the invention

Patent EP 240228 describes a dibenzothiazepine compound of formula(I):



(I)

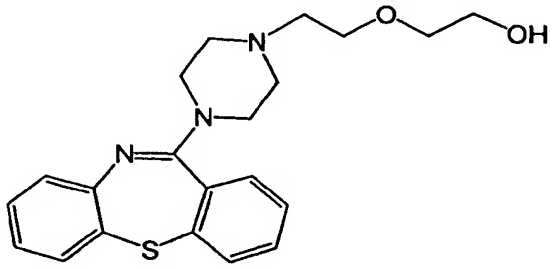
useful for its antidopaminergic activity, for example as an antipsychotic or neuroleptic, currently known by the DCI of quetiapine.

The said patent describes the obtaining of the compound of formula (I) by reaction of an imino chloride, specifically 11-chloro-dibenzo[b,f][1,4]thiazepine, or of its corresponding imino ether, with 2-(2-piperazine-1-il-ethoxy) ethanol.

A later patent, EP 282236, describes the preparation of the compound of formula (I) by reaction of the same imino chloride with piperazine, followed by reaction of the product obtained in hydrochlorate form with chloro-ethoxyethanol.

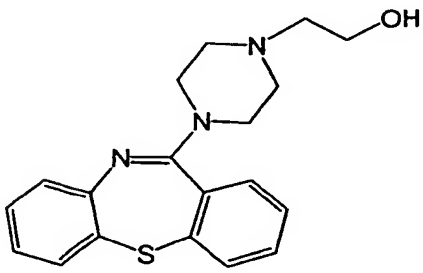
CLAIMS

1. Procedure for obtaining 11-(4-[2-(2-hydroxyethoxy)ethyl]-1-piperazinyl)-dibenzo[b,f][1,4]thiazepine, of formula (I)



(I)

or a pharmaceutically acceptable salt thereof, characterised in that it comprises reaction between a compound of formula (II) and a compound of formula (III):



(II)

(III)

in which X means a leaving group and P a protective group of alcohols resistant to alkaline conditions, in the presence of a base, followed by a step of deprotection